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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/804,421	03/19/2004	Leonard Forbes	1303.049US2	7251
21186	7590 11/16/2004		EXAM	INER
SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A. P.O. BOX 2938			PALMER, F	PHAN T H
MINNEAPOLIS, MN 55402		ART UNIT	PAPER NUMBER	
	•		2874	

DATE MAILED: 11/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		IN				
	Application No.	Applicant(s)				
	10/804,421	FORBES ET AL.				
Office Action Summary	Examiner	Art Unit				
	PHAN T.H. PALMER	2874				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with					
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, and If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by so any reply received by the Office later than three months after the nearned patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a re n. a reply within the statutory minimum of thirty riod will apply and will expire SIX (6) MONT tatute, cause the application to become ABA	ply be timely filed  (30) days will be considered timely.  HS from the mailing date of this communication.  NDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 1	9 March 2004.					
3) Since this application is in condition for allo	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ⊠ Claim(s) 1-22 is/are pending in the applica 4a) Of the above claim(s) is/are with 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-22 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction are	drawn from consideration.					
Application Papers						
9) ☐ The specification is objected to by the Exam 10) ☑ The drawing(s) filed on 19 March 2004 is/a Applicant may not request that any objection to Replacement drawing sheet(s) including the co 11) ☐ The oath or declaration is objected to by the	re: a) ☑ accepted or b) ☐ objethe drawing(s) be held in abeyand rrection is required if the drawing(s	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for force a) All b) Some * c) None of:  1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	nents have been received. nents have been received in Appriority documents have been received in the priority documents have been received.	oplication No received in this National Stage				
		PHAN T, H. PALMER PRIMARY EXAMINER				
Attachment(s)	<u></u>	11/12/2004				
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date.						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152) Cher:						

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# **DETAILED ACTION**

 Applicant's cooperation is requested in correcting any error of which applicant may become aware in the specification.

### Information Disclosure Statement

2. The information disclosure statement submitted on 03/19/2004, has been considered by the examiner and made of record. See attached form PTO-1449.

# **Double Patenting**

3. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-22 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-32 of copending Application No. 10/099,044. Although the conflicting claims are not identical, they are not patentably distinct from each other because the instant

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invention claimed a waveguide including a number of hollow core fiber arranged longitudinally around a hollow guide region as two dimensional photonic crystal with a photonic bandgap, and the hollow guide region includes geometry that is shaped to channel a signal frequency that is substantially within the photonic bandgap, whereas the copending application does have the array of hollow cores fiber arranged longitudinally about an axis to define a central hollow core about the axis, wherein the array is formed as a two dimensional photonic crystal with a photonic bandgap that allows radiation of a select frequency range to propagate down the central hollow core.

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This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

#### Allowable Subject Matter

4. The following is a statement of reasons for the indication of allowable subject matter: the claims are allowable over prior art of record, because none of the references in alone or in combination discloses a number of hollow core optical fibers arranged longitudinally around a hollow guide region; wherein the number of hollow core fibers are arranged as a two dimensional photonic crystal with a photonic bandgap; and wherein the hollow guide region includes geometry that is shaped to channel a signal frequency that is substantially within the photonic bandgap.

The Barkou et al reference does not disclose a number of hollow core optical fibers, this article mentions a honeycomb photonic crystal fiber by adding an extra central air holes.

The above rejected claimed will be allowable with a terminal disclosure.

#### **CONTACT INFORMATION**

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to PHAN T.H. PALMER whose telephone number is (571) 272-2354. The examiner can normally be reached on 4/4 OFF MONDAY.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, RODNEY B. BOVERNICK can be reached on (571) 272-2344. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

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For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PTHP 11/12/2004

> PHANT, H. PALMER PRIMARY EXAMINER